



Syntaxin 10 (K-13): sc-131084

BACKGROUND

Syntaxins, a family of proteins involved in the fusion of synaptic vesicles with the plasma membrane, display broad tissue distribution and contain C-terminal hydrophobic domains that direct them to their respective intracellular compartments. Syntaxin 10, also known as STX10, SYN10 or hSyn10, is a 249 amino acid single-pass type IV membrane protein that localizes to the Golgi apparatus and contains one t-SNARE coiled-coil homology domain. Expressed at high levels in pancreas, heart and skeletal muscle, Syntaxin 10 interacts with VPS52 and functions to receive vesicles from either the endosome or from Golgi stacks. Syntaxin 10 exists as multiple alternatively spliced isoforms which are encoded by a gene that maps to human chromosome 19.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STX10 (human) mapping to 19p13.13.

SOURCE

Syntaxin 10 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Syntaxin 10 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-131084 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Syntaxin 10 (K-13) is recommended for detection of All Syntaxin 10 isoforms 1 and 2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other Syntaxin family members.

Suitable for use as control antibody for Syntaxin 10 siRNA (h): sc-97252, Syntaxin 10 shRNA Plasmid (h): sc-97252-SH and Syntaxin 10 shRNA (h) Lentiviral Particles: sc-97252-V.

Molecular Weight of Syntaxin 10: 28 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.